

**Patent claims**

1. Mixture containing

5 A) vinylcyclohexane-based polymer and

B) stabiliser system containing lactone, sterically hindered phenol and phosphite compound.

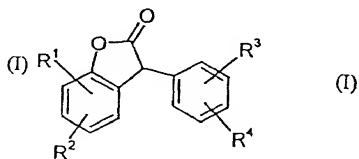
10 2. Mixture according to claim 1, containing 0.001 to 2 wt.% (based on the polymer used) of stabiliser system B.

3. Mixture according to claim 1, containing 0.005 to 1 wt.% of stabiliser system B.

15 4. Mixture according to claim 1 to 3, containing as stabiliser system the following compounds:

lactone corresponding to formula (I)

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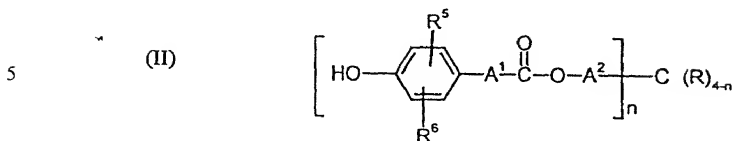


25

wherein

30  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$ , independently of each other, represent hydrogen,  $C_1$ - $C_6$ -alkyl, or a 5 or 6-membered ring alkyl,

sterically hindered phenol corresponding to formula (II)



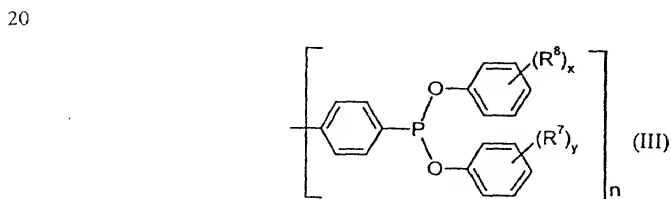
wherein

10  $\text{R}^5$  and  $\text{R}^6$ , independently of each other, represent hydrogen or  $\text{C}_1$ - $\text{C}_6$ -alkyl, a 5 or 6-membered ring,

$n$  represents an integer from 1 to 4, and

15  $\text{R}$ , independently, represents hydrogen,  $\text{C}_1$ - $\text{C}_6$ -alkyl,  $\text{C}_1$ - $\text{C}_6$ -alkoxy, a 5 or 6-membered ring,

phosphite component corresponding to formula (III)



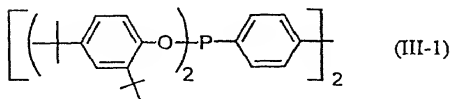
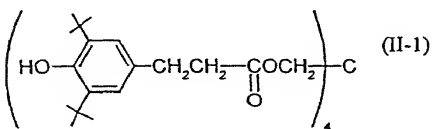
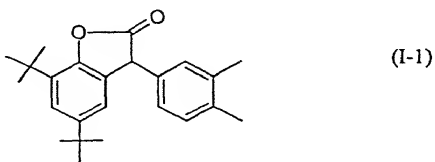
wherein

30  $\text{R}^7$  and  $\text{R}^8$ , independently of each other, represents hydrogen,  $\text{C}_1$ - $\text{C}_6$ -alkyl, also as a 5 or 6-membered ring or as branched alkyl, and

$x$  and  $y$ , independently of each other, represent 0, 1, 2, 3, 4, 5, and

n represents 1 or 2, wherein if n = 1 the free valence bond of the carbon atom is attached to hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy or to 5,6 rings.

5. Mixture according to one or more of the preceding claims, containing the following compounds:



6. Mixture according to one or more of the preceding claims, wherein the stabiliser system contains
- 5 to 95 parts by wt. (based on component B) of compound(s) corresponding to formula I
- 5 to 95 parts by wt. (based on component B) of compound(s) corresponding to formula II
- 5 to 95 parts by wt. (based on component B) of compound(s) corresponding to formula III.